BOISE RIVER BASIN

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-73, 1988, 1990 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)
OCT								
19...	1130	321	121	7.8	10.0	11.5	--	11.7
DEC								
07...	0850	235	109	7.2	1.0	5.0	--	11.0
FEB								
13...	1540	3760	84	7.9	9.0	3.0	--	12.3
APR								
11...	1200	5690	83	7.9	10.0	7.5	2.9	11.6
22...	1300	4910	78	8.0	16.0	8.0	--	13.7
MAY								
16...	1130	3790	78	7.8	14.5	8.5	2.0	10.8
JUN								
11...	1350	5060	64	7.6	21.5	11.5	2.0	10.9
JUL								
12...	1340	1340	72	8.1	30.0	15.5	0.6	11.0
AUG								
21...	1025	1250	76	7.7	15.0	14.5	1.1	9.5
SEP								
24...	1354	743	91	8.1	16.0	16.0	1.5	10.7

DATE	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	BICAR-BONATE WATER WH FET FIELD MG/L AS HCO3 (00440)	CAR-BONATE WATER WH FET FIELD MG/L AS CO3 (00445)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
OCT							
19...	118	460	68	--	57	0	47
DEC							
07...	95	280	58	--	51	0	41
FEB							
13...	100	170	K12	--	45	0	37
APR							
11...	107	K53	K7	K18	46	0	38
22...	130	23	--	--	42	0	34
MAY							
16...	104	200	100	350	41	0	34
JUN							
11...	110	95	K14	31	--	--	--
JUL							
12...	121	--	20	42	--	--	--
AUG							
21...	102	620	47	35	--	--	--
SEP							
24...	119	--	45	61	42	0	35

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)
SEP							
24...	28	9.4	1.2	5.9	30	0.9	4.2

DATE	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP							
24...	2.2	0.4	12	67	59	0.09	60.6

K Results based on counts outside ideal colony range.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
19...	--	0.60	<0.015	0.3	0.15	0.14	5	4.5
DEC								
07...	--	0.54	<0.015	<0.2	0.12	0.09	4	2.5
FEB								
13...	--	0.27	0.020	<0.2	0.06	0.03	67	727
APR								
11...	<0.01	0.20	<0.015	<0.2	0.03	0.02	22	325
22...	--	0.13	0.030	<0.2	0.03	0.02	17	224
MAY								
16...	0.01	0.15	0.050	<0.2	0.08	0.07	25	258
JUN								
11...	0.01	0.16	0.030	<0.2	0.06	0.02	20	274
JUL								
12...	<0.01	0.24	0.050	<0.2	0.08	0.08	12	45
AUG								
21...	<0.01	0.22	0.060	<0.2	0.09	0.07	4	14
SEP								
24...	0.02	0.28	0.020	<0.2	0.10	0.13	4	3.6

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-73, 1988, 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1997.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.2 °C Sept. 9, 13, 1997.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 20.2 °C Sept. 9, 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT											
21...	1335	442	106	8.2	9.5	11.0	--	11.8	116	K40	--
DEC											
16...	1205	258	126	7.9	4.5	5.0	--	13.3	115	K42	--
FEB											
10...	1300	7140	77	7.5	11.0	3.0	--	12.3	101	K4	--
APR											
15...	0955	6850	81	7.6	18.5	6.5	5.2	11.4	101	K11	K12
MAY											
23...	1210	4820	52	7.2	19.5	10.0	--	10.8	107	45	56
JUN											
09...	1415	4430	57	7.7	26.0	12.0	4.2	11.6	119	30	72
JUL											
16...	1225	1400	64	7.8	30.0	15.0	5.2	10.1	110	95	K7
AUG											
11...	1535	1410	70	8.0	26.0	16.0	1.4	10.3	115	92	73
SEP											
08...	1100	978	79	7.6	21.0	16.5	1.9	9.0	102	400	620

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER WH FET FIELD MG/L AS HCO3 (00440)	CAR-BONATE WATER WH FET FIELD MG/L AS CO3 (00445)	ALKA-LINITY WAT WH TOT FET FIELD MG/L AS CACO3 (00410)
SEP									
08...	26	8.7	1.1	4.8	28	0.77	38	0	31

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
08...	2.3	1.4	0.27	12	57	51	0.08	151

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT										
21...	--	0.440	0.020	<0.20	<0.20	0.170	0.150	0.160	3	3.6
DEC										
16...	--	0.340	0.030	<0.20	<0.20	0.170	0.170	0.150	3	2.1
FEB										
10...	--	0.320	<0.015	<0.20	<0.20	0.070	<0.010	0.020	53	1020
APR										
15...	<0.010	0.183	<0.015	<0.20	--	0.020	--	0.023	20	370
MAY										
23...	<0.010	0.186	<0.015	<0.20	--	0.018	--	0.019	27	351
JUN										
09...	<0.010	0.155	0.053	<0.20	--	0.020	--	0.040	10	120
JUL										
16...	<0.010	0.119	<0.015	<0.20	--	0.067	--	0.030	40	151
AUG										
11...	<0.010	0.204	0.015	<0.20	--	0.039	--	0.055	4	15
SEP										
08...	<0.010	0.183	<0.015	<0.20	--	0.152	--	0.130	5	13

K Results based on counts outside ideal colony range.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JULY			AUGUST			SEPTEMBER	
1	---	---	---	17.0	14.0	15.4	19.4	15.9	17.3
2	15.9	12.0	13.8	18.0	13.9	15.7	18.3	16.2	17.2
3	17.0	12.0	14.4	18.1	14.0	15.9	---	---	---
4	17.3	12.3	14.7	17.0	14.3	15.5	---	---	---
5	17.7	12.6	15.1	18.3	14.3	16.0	---	---	---
6	17.3	13.1	15.0	18.3	14.5	16.2	19.9	16.2	18.0
7	17.5	12.8	15.0	18.5	14.5	16.3	19.9	16.2	18.0
8	17.2	12.9	15.0	17.8	14.2	15.9	19.6	16.2	17.9
9	15.8	13.3	14.6	18.0	13.9	15.8	20.2	16.2	18.2
10	16.7	13.4	14.9	18.0	14.5	15.9	20.1	17.2	18.5
11	16.5	12.5	14.5	17.2	14.5	15.7	18.7	17.0	17.7
12	17.2	12.6	14.8	18.1	14.5	16.1	19.6	16.4	17.8
13	17.8	12.9	15.2	18.1	14.3	16.0	20.2	16.5	18.2
14	17.7	13.3	15.4	18.3	14.5	16.2	19.9	16.9	18.3
15	17.7	13.4	15.4	18.3	14.5	16.2	19.0	16.1	17.5
16	17.5	13.4	15.4	18.0	14.2	15.9	19.0	15.9	17.5
17	15.8	13.9	14.8	18.3	14.3	16.1	17.6	16.2	16.6
18	16.1	13.6	14.6	18.3	14.5	16.2	19.0	15.9	17.2
19	17.5	13.6	15.3	18.3	14.5	16.2	19.0	15.3	17.2
20	17.8	13.4	15.4	18.1	14.6	16.3	19.1	15.6	17.4
21	17.8	13.6	15.5	18.5	14.6	16.4	19.4	15.8	17.6
22	17.8	13.7	15.6	18.6	14.6	16.5	19.4	16.2	17.9
23	17.8	13.7	15.6	18.6	15.0	16.6	19.8	16.4	18.1
24	17.7	13.6	15.5	18.5	15.4	16.7	19.4	16.4	18.0
25	17.7	13.9	15.6	18.5	14.8	16.5	18.8	16.4	17.7
26	17.7	13.6	15.4	18.6	15.0	16.6	19.4	17.2	18.2
27	17.8	13.7	15.6	18.6	15.0	16.6	18.0	15.4	16.8
28	15.9	13.9	14.9	18.3	15.0	16.5	18.3	15.0	16.7
29	16.9	14.2	15.2	18.8	15.1	16.7	18.8	15.4	17.1
30	17.3	14.2	15.6	19.0	15.3	16.9	---	---	---
31	17.5	13.9	15.6	18.3	15.6	16.8	---	---	---
MONTH	---	---	---	19.0	13.9	16.2	---	---	---

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971-73, 1988, 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1997, March to June 1998.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum. 20.2 °C Sept. 9, 13, 1997.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.0 °C May 19-20; minimum recorded, 3.6 °C March 18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT											
20...	1340	413	115	8.3	17.5	13.0	--	11.8	123	75	K40
DEC											
15...	1345	264	124	8.2	9.5	6.0	--	14.6	129	26	360
APR											
06...	1445	1950	94	8.6	12.5	7.5	2.4	12.9	119	K5	11
MAY											
11...	1250	3280	82	8.0	17.3	9.5	2.4	11.6	112	300	980
JUN											
12...	1020	5740	71	7.5	20.0	10.0	3.1	10.1	99	32	--
JUL											
13...	1335	1490	78	8.4	27.5	15.5	.67	10.4	114	K16	K11
AUG											
17...	1340	1400	81	8.3	20.0	17.5	.85	8.9	103	640	55
SEP											
18...	1140	951	95	7.7	23.0	18.0	1.1	9.8	114	290	760

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
18...	31	10	1.2	6.3	30	.90	46	0

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
18...	38	4.1	2.1	.35	13	62	.08	159

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
20...	--	.371	.048	<.20	.257	.191	7	7.8
DEC								
15...	--	.292	<.020	.16	.123	.142	3	2.1
APR								
06...	--	.149	.038	.21	.086	.055	6	32
MAY								
11...	--	<.050	.071	.13	.016	.020	26	230
JUN								
12...	.016	.126	<.020	<.10	.050	<.010	20	310
JUL								
13...	--	.119	.044	.14	.120	.074	10	40
AUG								
17...	--	.182	.051	.14	.051	.068	4	15
SEP								
18...	.014	.238	.021	.15	.071	.057	3	7.7

K Results based on counts outside ideal colony range.

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		MARCH			APRIL			MAY	
1	---	---	---	7.2	5.5	6.2	11.1	7.4	8.9
2	---	---	---	8.0	5.7	6.6	10.3	7.7	8.7
3	---	---	---	7.2	5.3	6.2	10.8	7.7	9.0
4	---	---	---	6.6	6.0	6.3	10.0	7.8	8.8
5	---	---	---	8.1	5.8	6.8	10.5	8.0	9.0
6	---	---	---	8.6	5.2	6.8	10.9	8.1	9.3
7	---	---	---	9.1	5.7	7.1	11.7	8.4	9.7
8	---	---	---	8.6	5.2	6.8	11.2	8.6	9.7
9	---	---	---	8.4	5.8	7.0	10.8	8.8	9.6
10	---	---	---	8.6	6.1	7.2	10.2	9.1	9.5
11	---	---	---	8.3	6.0	7.1	10.8	9.1	9.7
12	---	---	---	8.4	5.7	6.9	11.1	9.1	9.8
13	---	---	---	7.5	5.5	6.5	11.1	9.5	10.1
14	---	---	---	7.8	6.0	6.7	10.5	9.7	10.0
15	6.6	4.2	5.4	8.9	5.2	6.9	10.8	9.7	10.2
16	7.2	4.4	5.6	9.1	5.3	7.1	10.6	9.8	10.2
17	6.3	3.9	5.1	9.2	5.5	7.2	10.9	9.8	10.3
18	6.9	3.6	5.0	9.2	5.5	7.3	11.7	9.7	10.6
19	7.2	3.9	5.4	9.7	6.1	7.8	12.0	10.0	10.8
20	7.5	4.2	5.7	10.2	6.0	7.9	12.0	10.2	10.9
21	6.9	4.7	5.8	10.5	6.3	8.1	10.5	10.0	10.2
22	6.6	5.5	5.9	10.5	6.7	8.4	10.6	10.0	10.2
23	7.4	5.7	6.4	9.8	7.4	8.4	11.5	9.8	10.5
24	7.8	5.7	6.5	9.8	7.1	8.1	11.4	9.7	10.3
25	7.4	5.8	6.4	9.8	6.1	7.8	9.8	9.4	9.7
26	7.2	5.3	6.2	10.3	6.1	8.0	9.5	9.2	9.3
27	6.9	5.3	5.9	10.5	6.4	8.3	10.3	9.1	9.5
28	6.3	4.4	5.4	10.9	6.7	8.6	11.1	8.9	9.8
29	7.7	4.9	6.0	11.2	7.1	8.9	10.5	9.2	9.7
30	8.0	4.4	6.1	11.2	7.2	9.0	10.5	8.9	9.5
31	8.1	4.7	6.3	---	---	---	10.9	8.9	9.7
MONTH	---	---	---	11.2	5.2	7.4	12.0	7.4	9.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST	
1	11.1	8.9	9.9	---	---	---	---	---	---
2	10.0	9.2	9.5	---	---	---	---	---	---
3	10.9	9.2	9.9	---	---	---	---	---	---
4	11.1	9.2	10.0	---	---	---	---	---	---
5	10.9	9.4	9.9	---	---	---	---	---	---
6	11.2	9.4	10.2	---	---	---	---	---	---
7	11.4	9.5	10.3	---	---	---	---	---	---
8	11.4	9.7	10.3	---	---	---	---	---	---
9	11.7	9.7	10.5	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

COLLECTION METHODS.--Composite of 5, 0.25 m^2 samples. Richest targeted habitat--riffles, whole sample.
MESH SIZE.--425 um.

AVERAGE DEPTH.--0.22 m.

AVERAGE PERCENT SHADING.--5.

AVERAGE VELOCITY.--0.74 m/s.

SUBSTRATE EMBEDDEDNESS CLASS RANGE.--3-4.

PERCENT FINES RANGE.--10-20.

HABITAT QUALITY INDEX.--67.

REMARKS.--Roads and housing encroaching on floodplain.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP 11	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Nematoda		8	0.16	PA	5
Oligochaeta		472	9.47	CG	8
Acari		72	1.44	PA	5
EPHEMEROPTERA					
Acentrella turbida		232	4.65	CG	4
Baetis tricaudatus		1088	21.83	CG	6
Heptagenia/Nixe		8	0.16	SC	2
Rhithrogena		16	0.32	SC	0
Tricorythodes minutus		8	0.16	CG	4
TRICHOPTERA					
Cheumatopsyche		88	1.77	CF	8
Hydropsyche		2568	51.52	CF	4
Leucotrichia		8	0.16	SC	6
Psychomyia		8	0.16	SC	2
LEPIDOPTERA					
Petrophila		8	0.16	SC	5
DIPTERA					
Empididae		32	0.64	PR	6
Hemerodromia		16	0.32	PR	6
Simulium		64	1.28	CF	6
Tanyderidae		8	0.16	UN	1
CHIRONOMIDAE					
Chironomidae-pupae		48	0.96	UN	6
Cardiocladius		40	0.8	PR	5
Cricotopus		80	1.61	CG	7
Eukiefferiella		8	0.16	OM	8
Micropsectra		8	0.16	CG	7
Orthocladius Complex		40	0.8	CG	6
Orthocladius		8	0.16	CG	6
Thienemannimyia Gr.		32	0.64	PR	6
Tvetenia		16	0.32	CG	5

TOTAL NUMBER OF TAXA	26	EPT ABUNDANCE	4024/m^2
TOTAL NUMBER OF ORGANISMS	4984/m^2	NUMBER EPT TAXA	9
HILSENHOFF BIOTIC INDEX	5.05	SHANNON DIVERSITY INDEX (H)	2.36

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

COLLECTION METHODS.--Qualitative multiple habitat, relative abundance, whole sample.
MESH SIZE.--210 um.
GEAR TYPE.--D-frame net and visual collections.

REACH LENGTH.--NA.

AVERAGE WIDTH.--45 m.

HABITAT QUALITY INDEX.--67.

REMARKS.--Roads and housing encroaching on floodplain.

BIOLOGICAL DATA, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
BENTHIC INVERTEBRATE COLLECTION DATA

ORGANISM **TAXON** *GENUS SPECIES*	DATE SEP 11	NUMBER OF INDIV-IDUALS	PERCENT COMPO-SITION	FUNC-TIONAL FEEDING GROUP	POLLU-TION TOLER-ANCE VALUE
NON-INSECTS					
Nematoda		60	0.15	PA	5
Oligochaeta		8580	21.54	CG	8
Copepoda		300	0.75	CG	8
Ostracoda		60	0.15	CG	8
Gammarus		360	0.9	CG	6
Caecidotea		60	0.15	CG	8
Acari		120	0.3	PA	5
EPHEMEROPTERA					
Acentrella turbida		960	2.41	CG	4
Baetis tricaudatus		17040	42.77	CG	6
Attenella margarita		60	0.15	CG	2
Rhithrogena		420	1.05	SC	0
Tricorythodes		60	0.15	CG	4
HEMIPTERA					
Corixidae		840	2.11	UN	8
TRICHOPTERA					
Cheumatopsyche		60	0.15	CF	8
Hydropsyche		7380	18.52	CF	4
DIPTERA					
Hemerodromia		60	0.15	PR	6
Simulium		180	0.45	CF	6
Tipula		60	0.15	OM	4
CHIRONOMIDAE					
Chironomidae-pupae		240	0.6	UN	6
Apedilum		120	0.3	CG	11
Brillia		180	0.45	SH	5
Cardiocladius		120	0.3	PR	5
Chironomini-early instar		60	0.15	CG	6
Cladotanytarsus		60	0.15	CG	7
Cricotopus		1140	2.86	CG	7
Cricotopus Trifascia Gr.		60	0.15	CG	6
Eukiefferiella		240	0.6	OM	8
Orthocladius Complex		420	1.05	CG	6
Orthocladius		120	0.3	CG	6
Parakiefferiella		60	0.15	CG	4
Paratanytarsus		60	0.15	UN	6
Synorthocladius		120	0.3	CG	2
Thienemannimyia Gr.		120	0.3	PR	6
Tvetenia		60	0.15	CG	5

TOTAL NUMBER OF TAXA	34	EPT ABUNDANCE	25980
TOTAL NUMBER OF ORGANISMS	39840	NUMBER EPT TAXA	7
HILSENHOFF BIOTIC INDEX	6.02	SHANNON DIVERSITY INDEX (H)	2.60

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years1971-73, 1988, 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July to September 1997, March to June 1998, October 1998 to September 1999.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.2 °C Sept. 9, 13, 1997; minimum, 0.0 °C Dec. 21-22, 1998.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.7 °C Aug. 28-29; minimum, 0.0 °C Dec. 21-22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
OCT											
13...	1528	368	117	8.5	20.0	15.9	1.2	11.1	124	60	K6
DEC											
14...	1130	276	136	8.0	5.0	6.9	--	11.9	106	76	--
FEB											
16...	1130	188	158	7.4	8.5	4.8	--	15.5	112	K18	--
APR											
12...	1045	5960	77	7.8	9.0	6.2	--	11.5	101	K16	--
MAY											
11...	1000	2000	72	7.6	11.0	8.3	10	12.1	114	28	--
JUN											
15...	1300	3160	81	7.9	30.0	12.9	4.5	12.0	120	37	--
JUL											
13...	1120	1450	70	7.2	26.5	14.0	2.0	11.4	123	76	180
AUG											
16...	1430	1310	79	8.2	31.5	17.7	.60	12.6	146	120	--
SEP											
07...	1635	951	83	8.4	23.0	18.0	1.0	10.0	117	60	1000

DATE	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ANC WATER UNFLTRD FET FIELD MG/L AS HCO3 (00440)	ANC UNFLTRD CARB FET FIELD MG/L AS CO3 (00445)
SEP								
07...	25	8.5	.94	5.3	31	.71	36	1

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	SOLIDS, DIS-SOLVED (TONS PER AC-FT) (70303)	SOLIDS, DIS-SOLVED (TONS PER DAY) (70302)
SEP								
07...	31	3.6	2.3	.25	12	54	.07	138

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT								
13...	--	.421	.024	.22	.130	.107	5	5.0
DEC								
14...	--	.541	.036	.22	.292	.244	3	2.2
FEB								
16...	--	.536	.034	.29	.229	.185	7	3.6
APR								
12...	--	.242	<.020	.17	<.050	.025	12	193
MAY								
11...	--	.204	.069	.23	.073	.039	11	59
JUN								
15...	--	.142	<.020	.23	E.038	.019	10	85
JUL								
13...	<.010	.195	<.020	.15	.077	.054	3	12
AUG								
16...	--	.065	<.020	.17	.130	<.010	6	21
SEP								
07...	<.010	.255	<.020	.20	.054	.019	--	--

E Positive detection, but below stated detection limits.
K Results based on counts outside ideal colony range.

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	12.1	9.9	11.0	10.1	8.7	9.4	6.0	4.3	5.3
2	---	---	---	11.6	9.0	10.5	9.6	8.7	9.0	5.3	3.2	4.4
3	---	---	---	11.6	8.5	10.3	9.3	7.3	8.2	4.8	2.6	3.8
4	---	---	---	12.1	9.7	11.1	7.3	5.6	6.2	4.8	2.3	3.8
5	---	---	---	11.6	10.4	11.0	6.7	5.1	5.8	5.4	3.1	4.4
6	---	---	---	11.3	9.4	10.4	6.7	4.9	5.9	5.6	3.5	4.8
7	---	---	---	10.3	8.8	9.5	6.5	5.3	5.9	5.9	3.9	5.1
8	---	---	---	9.6	8.4	9.0	6.5	5.3	5.9	5.7	3.5	4.9
9	---	---	---	10.1	7.6	9.0	5.9	4.3	5.2	5.9	3.4	4.8
10	---	---	---	9.4	7.7	8.8	5.6	4.0	5.1	7.0	4.8	5.8
11	---	---	---	9.9	8.2	9.1	6.5	4.8	5.8	6.1	4.2	5.2
12	---	---	---	10.4	7.9	9.4	7.6	6.0	6.8	5.9	4.0	5.2
13	---	---	---	10.7	8.8	9.9	7.3	5.7	6.6	6.5	4.5	5.6
14	---	---	---	11.0	8.7	10.0	7.3	6.1	6.7	5.9	4.3	5.4
15	---	---	---	11.6	9.4	10.6	6.3	4.8	5.6	7.4	5.4	6.4
16	---	---	---	11.2	9.1	10.4	6.3	4.8	5.6	7.1	5.9	6.5
17	---	---	---	10.8	9.4	10.2	6.0	4.6	5.4	6.1	4.6	5.3
18	---	---	---	9.9	8.1	9.1	5.3	4.2	4.7	7.0	4.9	6.0
19	---	---	---	9.6	7.4	8.7	4.4	2.6	3.4	6.8	5.4	6.2
20	---	---	---	9.1	7.9	8.7	3.0	1.4	2.3	7.1	5.6	6.5
21	---	---	---	9.6	8.2	9.0	1.6	.0	.9	7.0	5.6	6.3
22	---	---	---	9.9	8.8	9.3	2.0	.0	1.0	6.2	5.3	5.7
23	---	---	---	10.1	8.2	9.3	2.1	.2	1.1	6.5	5.1	5.8
24	14.3	11.9	13.4	9.9	8.5	9.4	2.6	.9	1.7	5.9	4.0	5.0
25	15.2	12.4	13.8	9.3	8.4	8.9	3.2	1.2	2.0	4.8	2.8	4.0
26	14.4	11.6	13.3	9.9	8.1	9.0	5.9	3.2	4.4	4.3	3.1	3.8
27	14.4	11.2	13.1	9.7	8.4	9.2	6.0	4.5	5.3	4.0	1.6	3.1
28	13.7	12.2	12.9	9.5	8.6	9.0	---	---	---	4.0	2.4	3.5
29	12.3	10.1	11.3	8.8	7.6	8.3	---	---	---	4.9	2.3	3.6
30	11.5	8.7	10.4	9.7	7.6	8.6	---	---	---	5.1	2.6	3.9
31	12.1	8.7	10.5	---	---	---	---	---	---	5.3	3.5	4.5
MONTH	---	---	---	12.1	7.4	9.6	---	---	---	7.4	1.6	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	5.6	3.4	4.6	4.0	2.9	3.3	7.1	5.3	6.0	10.4	8.2	9.2
2	4.7	3.1	3.9	4.0	2.4	3.2	6.7	5.3	5.8	9.4	8.2	8.7
3	5.4	2.9	4.3	4.3	3.1	3.5	6.3	5.4	5.7	9.7	7.9	8.7
4	6.0	4.0	5.1	4.0	3.1	3.4	6.5	5.1	5.7	9.9	7.7	8.6
5	5.7	3.1	4.8	4.5	2.8	3.4	6.3	5.4	5.8	11.0	7.4	9.0
6	5.4	4.6	5.1	4.3	2.9	3.5	7.4	5.6	6.3	12.1	7.6	9.5
7	6.3	4.8	5.4	4.0	3.4	3.6	7.9	5.4	6.4	11.0	8.4	9.4
8	5.5	3.9	4.6	4.3	3.1	3.6	7.0	6.0	6.4	10.8	7.4	8.9
9	6.2	4.3	5.1	4.3	3.4	3.8	6.7	5.5	6.0	10.4	7.1	8.5
10	4.7	2.6	3.8	4.6	3.4	3.8	7.1	5.3	6.0	11.2	7.3	8.9
11	4.5	1.8	3.3	4.8	3.4	3.9	7.7	5.6	6.4	11.6	7.4	9.3
12	4.6	2.0	3.5	4.8	3.2	3.9	8.1	5.7	6.6	10.5	8.2	9.3
13	5.1	2.9	4.0	4.8	3.7	4.1	8.1	5.9	6.8	10.4	7.7	9.0
14	4.6	3.4	4.0	4.9	3.7	4.2	7.7	5.6	6.4	10.8	7.6	9.1
15	6.2	3.4	4.7	5.3	3.7	4.4	8.2	5.6	6.6	10.7	7.6	9.0
16	6.2	3.9	5.2	5.4	4.0	4.4	9.0	6.2	7.3	11.6	7.7	9.5
17	5.2	2.7	3.8	5.6	3.7	4.5	9.0	6.5	7.5	11.6	8.4	9.7
18	2.9	2.3	2.6	5.7	4.0	4.7	9.0	6.8	7.7	12.7	8.7	10.4
19	3.7	2.4	2.9	6.0	4.3	5.0	8.4	7.0	7.7	12.7	8.4	10.3
20	3.4	1.8	2.5	6.0	4.6	5.2	9.0	7.1	7.8	12.2	8.7	10.3
21	2.9	2.4	2.7	5.6	4.9	5.3	9.1	6.5	7.6	13.0	8.8	10.7
22	3.1	2.1	2.6	6.5	4.8	5.5	9.3	6.3	7.6	13.2	8.5	10.7
23	3.5	2.6	2.9	6.5	4.9	5.6	10.5	7.1	8.5	13.6	8.8	11.0
24	3.7	2.8	3.1	6.8	5.1	5.8	10.5	7.3	8.6	13.8	9.1	11.3
25	3.1	2.6	2.9	7.1	5.3	6.1	10.5	7.3	8.7	13.9	9.3	11.4
26	3.7	2.4	2.9	6.8	5.4	6.0	9.4	7.7	8.4	13.5	9.3	11.2
27	3.7	2.4	2.9	6.0	5.2	5.6	10.2	7.6	8.6	13.8	9.0	11.2
28	3.7	2.9	3.2	6.7	5.1	5.7	9.3	7.3	8.1	13.9	9.6	11.5
29	---	---	---	6.5	5.6	6.0	8.7	7.3	8.0	13.0	9.9	11.2
30	---	---	---	6.5	5.4	5.9	10.7	7.7	8.9	12.4	9.3	10.8
31	---	---	---	5.7	5.3	5.5	---	---	---	13.8	9.4	11.3
MONTH	6.3	1.8	3.8	7.1	2.4	4.6	10.7	5.1	7.1	13.9	7.1	9.9

13206000 BOISE RIVER AT GLENWOOD BRIDGE NEAR BOISE, ID--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.9	9.7	11.2	16.0	11.6	13.6	17.7	14.2	15.8	18.1	14.6	16.2
2	11.4	10.2	10.6	15.3	11.5	13.2	18.2	14.4	16.2	18.2	14.4	16.3
3	11.5	9.7	10.5	15.0	11.5	13.2	16.6	14.6	15.6	18.4	14.9	16.5
4	12.5	10.1	11.1	15.7	11.5	13.4	18.2	14.4	16.1	18.9	14.9	16.8
5	12.9	10.1	11.4	16.3	11.5	13.7	17.7	14.6	16.0	19.2	15.0	17.0
6	12.9	10.2	11.3	16.9	11.9	14.2	17.6	14.6	15.9	18.7	15.3	17.1
7	12.9	9.7	11.2	16.6	12.7	14.5	17.1	14.6	15.7	18.4	14.7	16.6
8	12.9	10.1	11.3	16.5	12.1	14.1	18.2	14.1	15.9	19.0	14.7	16.8
9	13.2	9.9	11.3	16.9	12.2	14.4	18.2	14.2	16.1	18.7	15.3	17.1
10	13.2	10.1	11.5	17.3	12.7	14.8	16.4	14.2	15.4	19.2	15.8	17.4
11	13.3	10.4	11.6	17.6	13.0	15.1	16.9	14.6	15.5	18.7	15.0	16.9
12	13.5	10.5	11.8	17.7	13.3	15.3	18.4	14.7	16.3	19.0	15.0	17.0
13	12.7	10.8	11.6	17.9	13.3	15.5	18.1	14.6	16.1	19.2	15.3	17.3
14	13.6	10.8	12.0	17.4	13.6	15.3	17.7	14.2	15.9	19.5	15.5	17.5
15	13.8	10.8	12.1	17.3	13.0	15.0	18.1	14.1	15.9	19.4	15.7	17.6
16	13.8	11.0	12.1	17.7	13.3	15.3	18.4	14.2	16.2	19.7	15.7	17.6
17	13.6	10.8	12.1	17.7	13.5	15.5	18.7	14.4	16.4	19.2	16.1	17.7
18	13.6	11.0	12.1	17.3	13.3	15.2	17.9	14.7	16.2	19.4	15.8	17.6
19	13.8	10.8	12.1	17.9	13.5	15.5	18.9	15.2	16.8	19.4	15.7	17.5
20	13.6	10.8	12.0	17.7	13.8	15.6	19.0	14.9	16.8	19.4	15.8	17.6
21	12.9	11.2	11.9	17.9	13.6	15.5	18.9	15.3	16.9	19.5	16.0	17.8
22	13.6	10.8	12.1	18.1	13.8	15.7	18.9	14.9	16.8	---	---	---
23	13.9	10.8	12.1	18.2	13.8	15.9	17.9	15.2	16.5	---	---	---
24	13.3	11.2	12.0	17.7	13.9	15.6	19.4	15.7	17.3	---	---	---
25	13.6	11.0	12.1	17.9	13.6	15.6	19.4	15.3	17.2	---	---	---
26	13.9	10.7	12.1	18.2	13.8	15.8	19.5	15.3	17.3	---	---	---
27	13.9	10.8	12.2	18.4	14.1	16.1	19.0	15.5	17.1	---	---	---
28	14.1	11.0	12.4	17.9	14.2	16.1	19.7	16.0	17.6	---	---	---
29	15.2	11.5	13.1	18.2	14.6	16.2	19.7	15.7	17.6	---	---	---
30	15.7	11.6	13.4	18.2	14.2	16.1	19.0	15.7	17.2	---	---	---
31	---	---	---	18.2	13.9	15.9	17.9	14.1	16.0	---	---	---
MONTH	15.7	9.7	11.8	18.4	11.5	15.1	19.7	14.1	16.4	---	---	---